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07 January 2013

Jim Fleer  
Oxford Environmental & Safety, Inc  
14348 Nieman Rd.  
Overland Park, KS 66221

RE: Arkwood Monthly Sampling  
SDG Number: 1212303

Enclosed are the results of analyses for samples received by the laboratory on 31-Dec-12 08:15. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	✓
Temperature on Receipt	1.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James".

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Norma James  
President

07 January 2013



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## **CASE NARRATIVE**

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Sample Delivery Group - 1212303

### **Semivolatiles Analysis:**

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The three surrogate compounds are as follows: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.

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#### ANALYTICAL RESULTS

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Lab Number: 1212303-01  
Sample Name: Mouth  
Date/Time Collected: 12/28/12 13:25  
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	25.0		1/2/13 16:15	A301011	8270D
2,4,6-Tribromophenol [surr]	%	65.8		1/2/13 16:15	A301011	8270D
2-Fluorophenol [surr]	%	58.7		1/2/13 16:15	A301011	8270D
Phenol-d5 [surr]	%	40.3		1/2/13 16:15	A301011	8270D

#### ANALYTICAL RESULTS

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Lab Number: 1212303-02  
Sample Name: Weir  
Date/Time Collected: 12/28/12 13:00  
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 1.00		1/2/13 16:37	A301011	8270D
2,4,6-Tribromophenol [surr]	%	83.6		1/2/13 16:37	A301011	8270D
2-Fluorophenol [surr]	%	37.8		1/2/13 16:37	A301011	8270D
Phenol-d5 [surr]	%	28.2		1/2/13 16:37	A301011	8270D

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## QUALITY CONTROL RESULTS

### Semivolatiles - Quality Control Analyzed: 02-Jan-13 15:31 By: TB

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A301011 - 3510C Modified

##### Blank (A301011-BLK1)

Prepared & Analyzed: 02-Jan-13

Pentachlorophenol	ND	10.0	ug/L							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Pyrene	ND	10.0	"							
Pyridine	ND	10.0	"							
Surrogate: 2,4,6-Tribromophenol	35.5		"	40.0		88.7	19.3-113			
Surrogate: 2-Fluorophenol	21.2		"	40.0		53.0	13-75.4			
Surrogate: Phenol-d5	14.7		"	40.0		36.7	13.1-75.2			

##### LCS (A301011-BS1)

Prepared & Analyzed: 02-Jan-13

Pentachlorophenol	41.9	10.0	ug/L	40.0		105	48.5-124			
Surrogate: 2,4,6-Tribromophenol	41.0		"	40.0		102	19.3-113			
Surrogate: 2-Fluorophenol	19.7		"	40.0		49.2	13-75.4			
Surrogate: Phenol-d5	13.4		"	40.0		33.5	13.1-75.2			

##### Matrix Spike (A301011-MS1)

Source: 1212303-02

Prepared & Analyzed: 02-Jan-13

Pentachlorophenol	42.1	10.0	ug/L	40.0	ND	105	29.2-146			
Surrogate: 2,4,6-Tribromophenol	26.3		"	40.0		65.7	19.3-113			
Surrogate: 2-Fluorophenol	16.2		"	40.0		40.5	13-75.4			
Surrogate: Phenol-d5	12.2		"	40.0		30.4	13.1-75.2			

##### Matrix Spike Dup (A301011-MSD1)

Source: 1212303-02

Prepared & Analyzed: 02-Jan-13

Pentachlorophenol	42.0	10.0	ug/L	40.0	ND	105	29.2-146	0.333	25.6	
Surrogate: 2,4,6-Tribromophenol	30.0		"	40.0		75.1	19.3-113			
Surrogate: 2-Fluorophenol	16.4		"	40.0		41.0	13-75.4			
Surrogate: Phenol-d5	12.2		"	40.0		30.4	13.1-75.2			

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

A handwritten signature in blue ink that reads "Norma James".

Reviewed by:

Norma James  
President

## CHAIN OF CUSTODY RECORD

[illegible]